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NABL ACCREDITED AS PER ISO/IEC 17025:2005

Job No.: CECTC-VV-Ward No.-17-2016-17 Date: 25.03.2016

TEST REPORT

CLIENT	:	**Executive Engineer,** Rajarajeshwari Nagar Division, BBMP, Bangalore.
AGENCY	:	**Sri. V.Vishwanath,** Contractor, Bangalore.
NAME OF THE WORK	:	Construction of Gym and Yoga Building at Sundar Nagar and Mineral water Unit in ward No.17
SAMPLE ID	:	Cement (53 Grade)
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	a) Initial Setting Time	IS-4031 (Part -5)	180 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	380 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	28.00 %	-

Information is furnished by the Agency

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For Civil Experts

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Job No.: CECTC-VV-Ward No.-17-2016-17 Date : 25.03.2016

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** Rajarajeshwari Nagar Division, BBMP, Bangalore.
Agency : **Sri. V.Vishwanath,** Contractor, Bangalore.
Name of Work : Construction of Gym and Yoga Building at Sundar Nagar and Mineral water Unit in ward No.17
Date of Testing : 25.03.2016
Material : M-Sand Total Wt. of Aggregates **1500**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	80	5.33	5.33	94.7	90-100
2.36	129	8.60	13.93	86.1	75-100
1.18	325	21.67	35.60	64.4	55-90
600 Micron	298	19.87	55.47	44.5	35-59
300 Micron	310	20.67	76.13	23.9	8-30
150 Micron	255	17.00	93.13	6.9	0-10

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Job No.: CECTC-VV-Ward No.-17-2016-17

Date: 29.03.2016

TEST RESULTS OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Executive Engineer,** Rajarajeshwari Nagar Division, BBMP, Bangalore.
Agency : **Sri. V.Vishwanath,** Contractor, Bangalore.
Name of Work : Construction of Gym and Yoga Building at Sundar Nagar and Mineral water Unit in ward No.17
Sample Identification : 8mm,10mm, 12mm, 16mm,20mm, 25mm TMT Fe 500 Bars
Technical Reference : IS 1786:2008, IS 1608:2005, IS 1599:1985 (Reaffirmed 2006)
Date of test : 29.03.2016

S.No	Brand	Nominal size (dia in mm)	Mass per metre (kg/metre)	TENSILE STRENGTH		
				0.20 % proof stress/ yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation, percent on gauge length
1	Fe 500	8	0.389	511	549	15.0
1	Fe 500	10	0.617	520	560	16.0
2	Fe 500	12	0.889	540	587	19.0
3	Fe 500	16	1.57	592	610	20.0
4	Fe 500	20	2.460	615	640	22.0
5	Fe 500	25	3.840	622	659	23.0

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Job No.: CECTC-VV-Ward No.-17-2016-17 Date: 03.05.2016

TEST REPORT ON CONCRETE CUBES

Client	: **Executive Engineer,** Rajarajeshwari Nagar Division, BBMP, Bangalore.
Agency	: **Sri. V.Vishwanath,** Contractor, Bangalore.
Name of the work	: Construction of Gym and Yoga Building at Sundar Nagar and Mineral water Unit in ward No.17
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	05.04.2016	03.05.2016	8.168	488.6	21.71
2	05.04.2016	03.05.2016	8.178	496.8	22.08
3	05.04.2016	03.05.2016	8.194	517.2	22.99

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Job No.: CECTC-VV-Ward No.-17-2016-17

Date: 30.07.2016

TEST REPORT ON CEMENT CONCRETE BLOCKS

Client	: **Executive Engineer,** Rajarajeshwari Nagar Division, BBMP, Bangalore.
Contractor	: **Sri. V.Vishwanath,** Contractor, Bangalore.
Name of Work	: Construction of Gym and Yoga Building at Sundar Nagar and Mineral water Unit in ward No.17
Size of Block	: 400mm x 200mm x 200 mm
Cross Sectional Area	: 80000 mm^2
Test Method & Specification	: IS 2185 (Part 1) - 2005
No. of Blocks Tested	: 03

Sl.No.	Date of Sampling	Date of testing	Failure load (KN)	Compressive strength	Minimum required Compressive Strength of Individual Units
			kN	N/mm^2	N/mm^2
1	29.07.2016	30.07.2016	285.0	3.56	3.5
2	29.07.2016	30.07.2016	299.5	3.74	
3	29.07.2016	30.07.2016	305.0	3.81	

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Job No.: CECTC-VV-Ward No.-17-2016-17

Date: : 30.09.2016

TEST REPORT ON CERAMIC TILES

*Client	: **Executive Engineer,** Rajarajeshwari Nagar Division, BBMP, Bangalore.
*Contractor	: **Sri. V.Vishwanath,** Contractor, Bangalore.
*Name of Work	: Construction of Gym and Yoga Building at Sundar Nagar and Mineral water Unit in ward No.17
Sample ID	: Ceramic Tiles-300x300x8
Technical Reference	: IS: 13630 - 2006 - Method of Testing Ceramic Tiles IS 15622 - 2006 - Specification of Ceramic Tiles
No. of Samples Tested	: 05 (Five)
Date of Testing	: 30.09.2016

I. MODULUS OF RUPTURE

Sl. No.	Measured Dimension (mm)	Modulus of Rupture (N/mm^2)	Average (N/mm^2)	Requirement as per IS: 15622 (Reaffirmed 2006)
1	300 x 300 x 8	31.2	30.72	Average 30, Indivisual minimum 28
2	300 x 300 x 8	30.5		
3	300 x 300 x 8	30.6		
4	300 x 300 x 8	30.8		
5	300 x 300 x 8	30.5		

Information is furnished by the Client

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Job No.: CECTC-VV-Ward No.-17-2016-17

Date: 30.09.2016

TEST REPORT ON VITRIFIED TILES

Client	: **Executive Engineer,** Rajarajeshwari Nagar Division, BBMP, Bangalore.
Contractor	: **Sri. V.Vishwanath,** Contractor, Bangalore.
Name of Work	: Construction of Gym and Yoga Building at Sundar Nagar and Mineral water Unit in ward No.17
Sample ID	: Vitrified Tiles-600x600x10
Technical Reference	: IS: 13630 - 2006 - Method of Testing Ceramic Tiles IS 15622 - 2006 - Specification of Ceramic Tiles
No. of Samples Tested	: 05 (Five)
Date of Testing	30.09.2016

I. MODULUS OF RUPTURE

Sl. No.	Measured Dimension (mm)	Modulus of Rupture (N/mm^2)	Average (N/mm^2)	Requirement as per IS: 15622 (Reaffirmed 2006)
1	600 x 600 x 10	46.5	47.62	Average 47, indivisual minimum 44 N/mm^2
2	600 x 600 x 10	48.1		
3	600 x 600 x 10	47.8		
4	600 x 600 x 10	48.9		
5	600 x 600 x 10	46.8		

II. CHEMICAL RESISTANCE

Sl. No.	Measured Dimension (mm)	Visual observations	Requirement as per IS: 15622 (Reaffirmed 2006)
1	600 x 600 x 10	No visible effect	Class AA, min (13630 Part 8)
2	600 x 600 x 10	No visible effect	
3	600 x 600 x 10	No visible effect	
4	600 x 600 x 10	No visible effect	
5	600 x 600 x 10	No visible effect	

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III. STAIN RESISTANCE

Sl. No.	Measured Dimension (mm)	Visual observations	Requirement as per IS: 15622 (Reaffirmed 2006)
1	600 x 600 x 12	Stain Removed by Water	Class 1, min (13630 Part 8)
2	600 x 600 x 12	Stain Removed by Water	
3	600 x 600 x 12	Stain Removed by Water	
4	600 x 600 x 12	Stain Removed by Water	
5	600 x 600 x 12	Stain Removed by Water	

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Job No. CECTC-VV-Ward No.-17-2016-17 **Date:** 28.09.2016

TEST REPORT OF PAVER BLOCKS

Name of Client* : **Executive Engineer,** Rajarajeshwari Nagar Division, BBMP, Bangalore.
Agency : **Sri. V.Vishwanath,** Contractor, Bangalore.
Project Name* : Construction of Gym and Yoga Building at Sundar Nagar and Mineral water Unit in ward No.17
Sample Identification : 60mm Thick Paver Blocks
Reference to BIS codes : IS : 15658:2006
Date of Testing : 28.09.2016

Compressive Strength:

Sl.No.	Area of the sample as worked out (Plan area) (mm^2)	Failure Load (kN)	Correction factor	Compressive strength (Kg per sqm)	Apparent Compressive strength (Kg per sqm)
1	31000	761.5	1.16	24.57	28.50
2	31000	795.6	1.16	25.66	29.77
3	31000	802.1	1.16	25.87	30.01

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Job No.: CECTC-VV-Ward No.-17-2016-17 Date: 13.03.2017

TEST REPORT ON M.S GRILL

Client : **Executive Engineer,** Rajarajeshwari Nagar Division, BBMP, Bangalore.

Agency : **Sri. V.Vishwanath,** Contractor, Bangalore.

Name of work : Construction of Gym and Yoga Building at Sundar Nagar and Mineral water Unit in ward No.17

Sl.No	Description	Result
1	Weight / Meter	0.70 kg/m

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